PTO/SB/08a (06-03)

Approved for use through 07/31/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

When Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid QMB control number.

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 10/728,234

Filing Date December 4, 2003

First Named Inventor Dan TOMESCU

Art Unit 2183

Examiner Name

Sheet 1 of 3 Attorney Docket Number 5227-0001-1

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (d known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DB	 -	US- 4575818	03-11-1986	Almy, et al.	
	 	US- 4907148	03-06-1990	Morton	
1		^{US-} 4983958	01-08-1991	Carrick	
_		US- 5122984	06-16-1992	Strehler	
		^{US-} 5150430	09-22-1992	Chu	
		US- 5319762	06-07-1994	Mayer	
		US- 5329405	07-12-1994	Hou, et al.	
		US- 5373290	12-13-1994	Lempel, et al.	
		US- 5440753	08-08-1995	Hou, et al.	
		^{US-} 5488733	09-05-1995	Satoh, et al.	
		^{US-} 5497488	03-05-1996	Akizawa, et al.	
		^{US-} 5602764	02-11-1997	Eskandari-Gharnin	
		us- 5640582	06-17-1997	Hays, et al.	
		US- 5818873	10-06-1998	Wall, et al.	
		US- 5828593	10-27-1998	Schultz, et al.	
\sqrt{I}		^{US-} 6089453	07-18-2000	Kayser, et al.	
V		^{US-} 6295534	09-25-2001	Mann	
DB		^{US-} 6317819	11-13-2001	Morton	

	FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ 'Number ⁴ 'Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	⊤8

Examiner Signature	/Dennis Butler/	Date Considered	04/24/2006

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applican s unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO			on unless it contains a valid OMB control number. Complete if Known
•		Application Number	10/728,234
INFORMATION D	ISCLOSURE	Filing Date	December 4, 2003
STATEMENT BY		First Named Inventor	Dan TOMESCU
OTATEMENT OF	AI I LIOAITI	Art Unit	2183
(Use as many sheets	es necessary)	Examiner Name	
Sheet 2	of 3	Attorney Docket Number	5227-0001-1

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (d known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
22	_	US- CS 40000	04.04.0000	Duranton	3	
DB		^{US-} 6542989 US-	04-01-2003	Duramon	<u> </u>	
		US-				
		US-				
		US-	·			
		US-	-	1		
	***********	US-	 			
		US-				
-		US-				
		US-	 			
		US-				
_		US-	· · · · · · · · · · · · · · · · · · ·			
		US-	1			
		U\$-				
		US-	· · · · · · · · · · · · · · · · · · ·			
		US-	1			
		US-				
		US-				

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ 'Number ⁴ 'Kind Code ³ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т	
						Π	
						Τ	

Examiner Signature	/Dennis Butler/	Date Considered	04/24/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applican s unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for	form 14498/PTO			Complete if Known		
				Application Number	10/728,234	
	RMATION DI			Filing Date	December 4, 2003	
STAT	EMENT BY A	APPLI	CANT	First Named Inventor	Dan TOMESCU	
				Art Unit	2183	
	(Use as many sheets as	necessary)	l	Examiner Name		
Sheet	3	of	3	Attorney Docket Number	5227-0001-1	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
DB		MITU et al., "A CMOS Implementation of a Connex Memory," pp 579-582, IEEE, 1997.	
DB		STEFAN, Gheorghe, "Silicon or Molecules? What's the Best for Splicing?", Technical Univ. of Bucharest, Dept. of Electronics, pp 158-181, 1998.	
DB		STEFAN, Gheorghe, The Connex Memory. "A Physical Support for Tree/List Processing", Technical Univ. of Bucharest, Dept. of Electronics, pp 1-22, 1994.	
DB		STEFAN, Gheorge and BENEA, Robert, "Connex Memories & Rewriting Systems", Politehnica Univ. of Bucharest, Dept. of Electronics, pp 1299-1303, 1998.	
DB		STEFAN, Denisa and STEFAN, Gheorghe, "Bi-thread Microcontroller as Digital Signal Processor", 1997 IEEE.	
DB		HASCSI, Zoltan, MITU, Bogdan, PETRE, Mariana and STEFAN, Gheorghe, "High-Level Synthesis of an Enhanced Connex Memory" 1996 IEEE, pages 163-166.	
DB		STEFAN, G. and DRAGNICI, F., "Memory Management Unit With a PerformantLRU Circuit" Polytechnic Institute of Bucharesi, pages 89-96, Jan 1991.	
DB		THIEBAUT, Dominique and STEFAN, Gheorghe, "Local Alignments of DNA Sequences with the Connex Engine" pp 1-12, Sept. 2001.	
DB		STEFAN, Gheorghe and MALITA, Mihaela, "The Splicing Mechanism and the Connex Memory" Technical Univ. of Bucharest, Dept. of Electronics; Univ. of Bucharest, Fac. of Mathematics, pgs. 225-229, 1997.	
DB		HASCSI, Zoltan and STEFAN, Gheorghe, "The Connex Content Addressable Memory (C2AM)" "Politehnica" University of Bucharest, Electronics & Telecommunications Dpt., pgs. 422-425, Sept 1995.	

			
Examine	/Dennis Butler/	Date	04/24/2006
		Date	•-,,
Signature		Considered	J

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE perwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

or form 1449/PTO

Sheet

IRAS MFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 2

Complete if Known				
Application Number	10/728,234			
Filing Date	December 4, 2003			
First Named Inventor	DAN TOMESCU			
Art Unit	2183			
Examiner Name				
Attorney Docket Number	5227-0001-1			

				DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DB		^{US-} 5,758,176	05-26-1998	AGARWAL	
		US-			
		US-	-	<u> </u>	
		US-	1		·
		US-	<u> </u>		
		US-		·	;
		US-			

Date App DD-YYYY	Name of Patentee or opplicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Т
DD-YYYY			
26-2001 MICR	RON TECHNOLOGY		
			L
			Ļ
			L

Examiner Signature	/Dennis Butl	er/	Date Considered	04/24/2006
-----------------------	--------------	-----	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (07-05)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
D a collection of information unless it contains a valid OMB control number.

	te for form 1449/PTO				Complete if Known			
					Application Number	10/728,234		
INFO	DRMATION	DIS	CLOS	URE	Filing Date	December 4, 2003		
STA	STATEMENT BY APPLICANT			ANT	First Named Inventor	DAN TOMESCU		
	(Use as many sheets as necessary)				Art Unit	2183		
	(Use as many sne	CC3 #3 //	ecessary)		Examiner Name			
Sheet	2	of	2		Attorney Docket Number	5227-0002-1		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
DB		SHAW D E et al: "Active Memory Chip: A Brief Survey And Case Study" Circuits, Systems And Signal Processing, Cambridge, MS, US, vol. 6 no. 2, 1987 pages 239-258, XP000747239,	
·			
<u> </u>			

Examiner Signature	/Dennis Butler	/	Date Considered	04/24/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office. P.O. Box 1450. Abcardria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

MAR 2 4 2006 STEPPING OF

Sheet 1

PTO/SB/08A (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	10/728,234			
Filing Date	December 4, 2003			
First Named Inventor	Gheorghe Stefan			
Art Unit	2183			
Examiner Name				
Attorney Docket Number	5227-0001-1			

			U. Ş. PATEN	DOCUMENTS	
Examiner Initiats*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
DB		^{US-} 4780811	10-25-1988	AOYAMA et al.	
DB		^{US-} 6145075	11-07-2000	HENRY et al.	
		US-			
		US-	<u> </u>		
	-	US-			
-		US-			
		US-			-
		US-	1		,
		US-	-		-
		US-			
		US-			
		US-	-	, , , , , , , , , , , , , , , , , , , ,	<u> </u>
· · · · · · · · · · · · · · · · · · ·		US-	-		<u> </u>
		US-			
		US-	 		

		FORE	IGN PATENT DOCL	MENTS		
Examiner Cite Foreign Patent Document Publicat		Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Γ	
		Country Code ^{3 -} Number ^{4 -} Kind Code ⁵ (if known)	MM-DD-YYYY	, prince of once possine	Or Relevant Figures Appear	ļ τ ⁶
DB		WO 01/33352 A1	05/10/2001	Advanced Micro Devices		
DB		GB 2230119 A	10/10/1990	Intel Corporation		
						L
						╄
<u></u>	 					ᆫ
			1			l

Examiner			Date	04/04/0006
Signature				04/24/2006
Signature	/Dennis Butler/		Considered	0 - , , - 0 0 0
	/DCHHILD DUCTEL/	_		

**EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. (WIPO Standard ST.16 if possible.) Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND If you need assistance in completing the form, call 1-600-PTO-9199 (1-800-PT0-9199) and select option 2.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (07-05)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

	der the Paperwork Re		ct of 1995, no persons a		of information unless it contains a valid OMB control number. Complete if Known
Substitu	ne for form 1449/FTO			Application Number	10/728,234
INF	INFORMATION DISCLOSURE		Filing Date	December 4, 2003	
STA	STATEMENT BY APPLICANT		First Named Inventor	Gheorghe Stefan	
	(Use as many sheets as necessary)			Art Unit	2183
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	5227-0001-1

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	
Initials*	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
DB	:	INTEL, Intel Architecture Software Developer's Manual - Vol. 1: Basic Architecture, Chpt. 4, "Procedure Calls, Interrupts, and Exceptions"	
DB		SHAW, David E. et al., Active Memory Chips: A Brief Study and Case Study", Circuits Systems Signal Process, Vol. 6, NO. 2, 1987	
DB		BERRACHED, Ali et al., A Decoupled Access/Execute Architecture for Efficient Access of Structured Data, PA State University, 1993 IEEE	

Examiner	/Dennis Butler/	Date	04/24/2006
Signature	/ DCIMILD DUCTOL!	Considered	• • • • • • • • • • • • • • • • • • •

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant:

1 Applicant's unique citation designation number (optional), 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.